



## JOB DESCRIPTION

Position Title: **Senior Engineer**

Working Area: **Signal Systems**

Class Code: 5313

Exempt

EEO Code: 02

Effective Date: August 30, 2002

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### **Major Function**

Highly technical engineering work in the evaluation, optimization, installation, and maintenance of all signal system operating plans.

### **Essential Functions**

*Note: These are intended only as illustrations of the various types of work performed. The omission of specific duties does not exclude them from the position if the work is a logical assignment to the position.*

Collects and maintains an active inventory database on field timing and phasing, and field equipment. Investigates and evaluates current timing/phasing patterns and develops and implements new computer generated optimization plans.

Designs traffic signals and signal systems, and reviews designs submitted by others. Maintains an active up-to-date record of all traffic signals and signal systems build in the County.

Assists in preparation of RFP's and manages the installation of signal system equipment as required.

Provides traffic engineering technical support and supervision for design, installation and review of traffic control devices. Conducts traffic engineering studies and safety analysis, and prepares technical reports documenting conditions and necessary improvements.

Coordinates project activities with other County Departments and Divisions, the Florida Department of Transportation, cities, and law enforcement agencies, to ensure timely execution of required tasks.

Makes a recommendation to the Traffic Engineer regarding the development of Traffic Engineering Division budget and operating programs.

Prepares specifications, reviews materials, equipment requisitions and purchase orders.

Performs other duties as assigned or as may be necessary.



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### **Minimum Qualifications**

Considerable knowledge of traffic signal systems and devices. Extensive knowledge of signal system evaluation and optimization programs to include Passer II, Passer III, TRANSYT- 7F, AAP, HCM, and TS Draft.

Ability to operate a personal computer and associated software. Ability to program traffic signal controllers and coordinate units. Ability to use sound engineering judgment in the interpretation of program outputs. Ability to communicate effectively both orally and in writing.

Skilled in the use of signal and signal system programs, electronic instruments, and other signal related equipment.

Bachelor's Degree in Electrical Engineering, Civil Engineering, Engineering Technology or Electronics and four (4) years' experience in design and operation of traffic signals and signal systems.

Prefer Certification as IMSA Level II Signalization or ability to acquire same within six (6) months of employment.

Prefer Certification as IMSA Level III Signalization or ability to acquire same within twelve (12) months of employment.

*A comparable amount of education, training, or experience may be substituted for the minimum qualifications.*

### **Working Conditions**

The work environment for this position is a typical office situation with some duties being performed in the field. The incumbent typically performs job duties sitting at a desk or standing at a map table. The incumbent may be required to stand or sit for prolong periods of time to perform assigned functions.